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35. The method of claim ~~32~~<sup>1</sup> wherein the chlorotoxin is labeled.

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36. The method of claim ~~35~~<sup>3</sup> wherein the chlorotoxin label is detected by enzyme-linked immunosorbent assay.

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37. The method of claim ~~35~~<sup>3</sup> wherein the chlorotoxin label is a radiolabel.

6  
38. The method of claim ~~37~~<sup>5</sup> wherein the radiolabel is selected from the group consisting of <sup>3</sup>H, <sup>14</sup>C, <sup>32</sup>P, <sup>35</sup>S, <sup>36</sup>Cl, <sup>51</sup>Cr, <sup>57</sup>Co, <sup>58</sup>Co, <sup>59</sup>Fe, <sup>90</sup>Y, <sup>186</sup>Re, <sup>131</sup>I and <sup>125</sup>I.

7  
39. The method of any one of claims ~~37~~<sup>5</sup> or ~~38~~<sup>6</sup> wherein the radiolabel is detected by positron emission tomography scanning.

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40. The method of claim ~~35~~<sup>3</sup> wherein the chlorotoxin label is a fluorescent moiety.

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41. The method of claim ~~40~~<sup>8</sup> wherein the fluorescent moiety is selected from the group consisting of fluorescein, rhodamine, auramine, Texas Red, AMCA blue and Lucifer Yellow.

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42. The method according to claim ~~40~~<sup>8</sup> wherein the fluorescent moiety is detected by a method selected from the group consisting of fluorescent microscopy and fluorescent activated cell sorting.

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43. The method of claim ~~35~~<sup>3</sup> wherein the chlorotoxin label is biotin.

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44. The method of claim ~~43~~<sup>11</sup> further comprising the step of contacting the sample with avidin to form avidin-biotin-labeled chlorotoxin complexes.

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45. The method of claim ~~44~~<sup>12</sup> further comprising the step of contacting the avidin-biotin-labeled chlorotoxin complexes with 3'3'-diaminobenzidine to form a colormetric product wherein the level of the colormetric product is indicative of the level of chlorotoxin binding.

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46. The method of claim ~~32~~<sup>1</sup> wherein the tissue sample is frozen.

<sup>16</sup>  
~~47~~. The method of claim <sup>1</sup>~~32~~ wherein the tissue sample is embedded in paraffin.

<sup>17</sup>  
~~48~~. The method of any one of claims <sup>15 16</sup>~~46~~ or ~~47~~ wherein the tissue sample is counterstained.

<sup>18</sup>  
~~49~~. The method of claim <sup>17</sup>~~48~~ wherein the counterstain is selected from the group consisting of methyl green, hematoxylin and eosin.--